

|  |   |  |
|--|---|--|
| FORM PTO-1390 (Modified) U.S. PATENT AND TRADEMARK OFFICE; U.S. DEPARTMENT OF COMMERCE<br>(REV. 07-2004)   |   | ATTORNEY'S DOCKET NUMBER<br><b>2002B093</b>                                |
| TRANSMITTAL LETTER TO THE UNITED STATES<br>DESIGNATED/ELECTED OFFICE (DO/EO/US)<br>CONCERNING A SUBMISSION UNDER 35 U.S.C. 371   |   | U.S. APPLICATION NO. (If known, see 37 CFR 1.5)<br><b>AWAITE 10/518193</b> |
| INTERNATIONAL APPLICATION NO.<br><b>PCT/US03/017204</b>  | INTERNATIONAL FILING DATE<br><b>30 May 2003</b> | PRIORITY DATE CLAIMED<br><b>05 July 2002</b>                               |
| TITLE OF INVENTION<br><b>Functionalized Elastomer Nanocomposite</b>  |   |  |
| APPLICANT(S) FOR DO/EO/US<br><b>GONG, Caiguo; DIAS, Anthony J.; TSOU, Andy H.; POOLE, Beverly J.; KARP, Kriss R.</b>   |   |  |
| Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:  |   |  |
| <ol style="list-style-type: none"> <li>1. <input checked="" type="checkbox"/> This is a <b>FIRST</b> submission of items concerning a submission under 35 U.S.C. 371.</li> <li>2. <input type="checkbox"/> This is a <b>SECOND</b> or <b>SUBSEQUENT</b> submission of items concerning a submission under 35 U.S.C. 371.</li> <li>3. <input checked="" type="checkbox"/> This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (24) indicated below.</li> <li>4. <input checked="" type="checkbox"/> The US has been elected (Article 31).</li> <li>5. <input checked="" type="checkbox"/> A copy of the International Application as filed (35 U.S.C. 371 (c) (2)) <ol style="list-style-type: none"> <li>a. <input checked="" type="checkbox"/> is attached hereto (required only if not communicated by the International Bureau).</li> <li>b. <input type="checkbox"/> has been communicated by the International Bureau.</li> <li>c. <input type="checkbox"/> is not required, as the application was filed in the United States Receiving Office (RO/US).</li> </ol> </li> <li>6. <input checked="" type="checkbox"/> An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)). <ol style="list-style-type: none"> <li>a. <input checked="" type="checkbox"/> is attached hereto.</li> <li>b. <input type="checkbox"/> has been previously submitted under 35 U.S.C. 154(d)(4).</li> </ol> </li> <li>7. <input checked="" type="checkbox"/> Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371 (c)(3)) <ol style="list-style-type: none"> <li>a. <input type="checkbox"/> are attached hereto (required only if not communicated by the International Bureau).</li> <li>b. <input type="checkbox"/> have been communicated by the International Bureau.</li> <li>c. <input type="checkbox"/> have not been made; however, the time limit for making such amendments has NOT expired.</li> <li>d. <input checked="" type="checkbox"/> have not been made and will not be made.</li> </ol> </li> <li>8. <input type="checkbox"/> An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).</li> <li>9. <input type="checkbox"/> An oath or declaration of the inventor(s) (35 U.S.C. 371 (c)(4)).</li> <li>10. <input type="checkbox"/> An English language translation of the annexes to the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371 (c)(5)).</li> <li>11. <input checked="" type="checkbox"/> A copy of the International Preliminary Examination Report (PCT/IPEA/409).</li> <li>12. <input checked="" type="checkbox"/> A copy of the International Search Report (PCT/ISA/210).</li> </ol> <p><b>Items 13 to 23 below concern document(s) or information included:</b></p> <ol style="list-style-type: none"> <li>13. <input type="checkbox"/> An Information Disclosure Statement under 37 CFR 1.97 and 1.98.</li> <li>14. <input type="checkbox"/> An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.</li> <li>15. <input checked="" type="checkbox"/> A <b>FIRST</b> preliminary amendment.</li> <li>16. <input type="checkbox"/> A <b>SECOND</b> or <b>SUBSEQUENT</b> preliminary amendment.</li> <li>17. <input type="checkbox"/> A substitute specification.</li> <li>18. <input type="checkbox"/> A power of attorney and/or change of address letter.</li> <li>19. <input type="checkbox"/> A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821 - 1.825.</li> <li>20. <input type="checkbox"/> A second copy of the published International Application under 35 U.S.C. 154(d)(4).</li> <li>21. <input type="checkbox"/> A second copy of the English language translation of the International Application under 35 U.S.C. 154(d)(4).</li> <li>22. <input checked="" type="checkbox"/> Express Mail Label No. <u>EL 975231943 US</u></li> <li>23. <input checked="" type="checkbox"/> Other items or information:</li> </ol> <p><b>Return Receipt Postcard</b></p> |   |  |

BEST AVAILABLE COPY

|   |  |   |  |   |  |
|---|--|---|--|---|--|
| U.S. APPLICATION NO. (if known) <b>102518193</b><br>AWAITED |  | INTERNATIONAL APPLICATION NO.<br><b>PCT/US03/017204</b> |  | ATTORNEY'S DOCKET NUMBER<br><b>2002B093</b> |  |
|---|--|---|--|---|--|

24. The following fees are submitted:

**BASIC NATIONAL FEE (37 CFR 1.492(a)(1)-(5)) :**

- ☐ Neither international preliminary examination fee (37 CFR 1.482) nor international search fee (37 CFR 1.445(a)(2)) paid to USPTO and International Search Report not prepared by the EPO or JPO ..... **\$1080.00**
- ☐ International preliminary examination fee (37 CFR 1.482) not paid to USPTO but International Search Report prepared by the EPO or JPO ..... **\$920.00**
- ☒ International preliminary examination fee (37 CFR 1.482) not paid to USPTO but international search fee (37 CFR 1.445(a)(2)) paid to USPTO ..... **\$770.00**
- ☐ International preliminary examination fee (37 CFR 1.482) paid to USPTO but all claims did not satisfy provisions of PCT Article 33(1)-(4) ..... **\$730.00**
- ☐ International preliminary examination fee (37 CFR 1.482) paid to USPTO and all claims satisfied provisions of PCT Article 33(1)-(4) ..... **\$100.00**

**ENTER APPROPRIATE BASIC FEE AMOUNT =**

Surcharge of **\$130.00** for furnishing the oath or declaration later than ☐ 20 ☒ 30 months from the earliest claimed priority date (37 CFR 1.492(e)).

| CLAIMS  | NUMBER FILED | NUMBER EXTRA | RATE       |                           |
|---|--------------|--------------|------------|---------------------------|
| Total claims  | 71 - 20 =    | 51           | x \$50.00  | <b>\$2,550.00</b>         |
| Independent claims  | 3 - 3 =      | 0            | x \$200.00 | <b>\$0.00</b>             |
| Multiple Dependent Claims (check if applicable) <input type="checkbox"/>  |              |              |            | <b>\$0.00</b>             |
| <b>TOTAL OF ABOVE CALCULATIONS =</b>  |              |              |            | <b>\$3,680.00</b>         |
| <input type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27. The fees indicated above are reduced by 1/2.  |              |              |            | <b>\$0.00</b>             |
| <b>SUBTOTAL =</b>   |              |              |            | <b>\$3,680.00</b>         |
| Processing fee of <b>\$130.00</b> for furnishing the English translation later than <input type="checkbox"/> 20 <input type="checkbox"/> 30 months from the earliest claimed priority date (37 CFR 1.492(f)). |              |              |            | <b>\$0.00</b>             |
| <b>TOTAL NATIONAL FEE =</b>   |              |              |            | <b>\$3,680.00</b>         |
| Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31) (check if applicable) <input type="checkbox"/>               |              |              |            | <b>\$0.00</b>             |
| <b>TOTAL FEES ENCLOSED =</b>  |              |              |            | <b>\$3,680.00</b>         |
|   |              |              |            | Amount to be: refunded \$ |
|   |              |              |            | charged \$                |

**CALCULATIONS PTO USE ONLY**

a. ☐ A check in the amount of \_\_\_\_\_ to cover the above fees is enclosed.

b. ☒ Please charge my Deposit Account No. 05-1712 in the amount of \$3,680.00 to cover the above fees.

c. ☒ The Director is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. 05-1712

d. ☐ Fees are to be charged to a credit card. **WARNING:** Information on this form may become public. **Credit card information should not be included on this form.** Provide credit card information and authorization on PTO-2038.

**NOTE:** Where an appropriate time limit under 37 CFR 1.494 or 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the International Application to pending status.

SEND ALL CORRESPONDENCE TO:

**Leandro Arechederra (Reg. No. 52,457)**  
**ExxonMobil Chemical Company**  
**Law Technology**  
**P. O. Box 2149**  
**Baytown, Texas 77522-2149**  
**United States of America**

Customer Number: 23455

\_\_\_\_\_  
SIGNATURE

**Leandro Arechederra**  
\_\_\_\_\_  
NAME

**52,457**  
\_\_\_\_\_  
REGISTRATION NUMBER

**16 December 2004**  
\_\_\_\_\_  
DATE